INTERNATIONAL SEARCH REPORT

International application No.

PCT/US02/22053

A. CLASSIFICATION OF SUBJECT MATTER			
IPC(7) : G02B 6/38 US CL : 385/60			
According to International Patent Classification (IPC) or to both national classification and IPC			
B. FIELDS SEARCHED			
Minimum documentation searched (classification system followed by classification symbols) U.S.: 385/60, 59, 65, 66, 71, 80			
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched NONE			
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) USPTO APS EAST			
C. DOCUMENTS CONSIDERED TO BE RELEVANT			
Category *	Citation of document, with indication, where a		Relevant to claim No.
x	US 5,613,024 A (SHAHID) 18 March 1997 (18.03.1997), column 2, lines 25-42.		1-29
A	US 5,259,052 A (BRIGGS et al) 02 November 1993 (02.11.1993), see the entire document.		1-29
Further documents are listed in the continuation of Box C.		See patent family annex.	
* Special categories of cited documents:		"T" later document published after the inter date and not in conflict with the applica	ation but cited to understand the
	defining the general state of the art which is not considered to be lar relevance	principle or theory underlying the inver "X" document of particular relevance; the c	
"E" earlier ap	plication or patent published on or after the international filing date	considered novel or cannot be considered when the document is taken alone	
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means		"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination	
		being obvious to a person skilled in the	
"P" document published prior to the international filing date but later than the priority date claimed		"&" document member of the same patent family	
Date of the actual completion of the international search		Date of mailing of the interpational space of mailing of the interpational space.	
16 October 2002 (16.10.2002) Name and mailing address of the ISA/US		Authorized officer	
Commissioner of Patents and Trademarks		··· ··· -	_
Box PCT Washington, D.C. 20231		Khiem Nguyen	Rose Pride
Facsimile No. (703) 305-3230		Telephone No. (703) 308-0956	honce trubba

Form PCT/ISA/210 (second sheet) (July 1998)